Draw a Flowering Tree: Blossom Clusters and Branch Spread

Original tasks 1, 2 / independent work

Task 1

A drawing has a trunk 12 cm tall and a crown boundary 9 cm wide. State whether the spread is too narrow and give a corrected width using the rule that crown width should exceed trunk height.

Task 2

A student places 8 clusters in the inner zone, 4 in the middle, and 2 in the outer zone, for 14 clusters total. The intended pattern is that inner has the fewest clusters and outer has the most, with middle between them. State how many clusters to move and to which zones so that inner < middle < outer, keeping all zones nonempty.

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Original tasks 3, 4 / independent work

Task 3

A cluster contains 6 blossoms. Each blossom has 4 petals. State the total petal count and explain how to check it without counting every petal individually.

Task 4

A branch line runs from the trunk to a tip 15 cm away. A student places clusters at 2 cm, 5 cm, 9 cm, and 14 cm from the trunk. State whether spacing is even and suggest one adjustment using the rule that spacing should increase toward the tip.